

## SAMPLE APPLICATIONS

- FOODS
- CHEMICAL
- BIOMASS
- BIOFUELS
- PAPER AND PULP
- DAIRY
- MINERALS
- PETROCHEMICAL
- ... AND MANY MORE

## SAMPLE PROCESSES

- HEAT CURING
- COOLING/FREEZING
- MICROBIAL KILL
- POLYMERIZATION
- SINTERING/CALCINING
- DEWATERING
- DRYING

TESTING & RENTAL UNITS AVAILABLE

# TUBULAR MODELS

## **U-TROUGH MODELS**

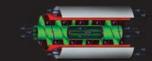
HEATING/COOLING Screw Conveyors







# **HEATING/COOLING CONVEYORS**



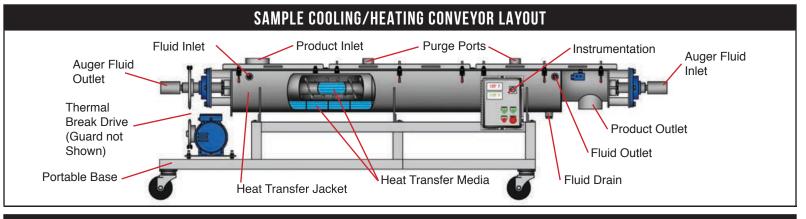


### **ENGINEERED-TO-ORDER**

S. Howes can assist in the design of heating and cooling equipment for your specific application. All materials are unique in their thermal heat transfer characteristics. Such factors include: particle size, density, viscosity, etc. After establishing a heat transfer coefficient, among other factors, S. Howes staff can assist in the specification of equipment for your application. Typically, this requires material testing in our lab. When testing in our lab may not be practical, equipment can be shipped to your facility for on-site testing. A technician is available to assist your staff in operating any equipment. Leverage our experience!

APPLICATIONS FOR HEATING/COOLING SCREW CONVEYORS						
PROCESS	THROUGHPUT CAPACITY*	TEMPERATURE RANGE*	SCREW DIAMETER Range	THERMAL TRANSFER Contact area	HEAT/COOLING MEDIA	
COOLING	As low as 100 lbs./hour As high as 5 tons/hour	MIN (out)   60 °F MAX (in)  1000 °F	4" to 36"	up to 300 sq. ft.	Water Glycol	osi si re- stam)
HEATING	As low as 100 lbs./hour As high as 2 tons/hour	MIN (in) 50 °F MAX (out) 400 °F	4" to 36"	up to 300 sq. ft.	Water Steam Glycol Hot Oil	5 to 200 psi (over 14.9 psi i quires ASME st
DRYING/ DEWATERING	Can remove as much as 50 lbs. of water/hour	MIN (in) 100 °F	4" to 36"	up to 300 sq. ft.	Steam Hot Oil	

\*Ranges shown here are typical but not absolute. Different configurations may be designed to fit your needs. Contact S. Howes to discuss your specific application.



#### DESIGN OPTIONS FOR HEATING/COOLING CONVEYORS AUGER TYPES INSTRUMENTATION • Single/Twin/Multi screw Temperature in/out readout Heated/Cooled shaft Flowmeters Variety of pressure gauges Hollow flights Ribbon or cut flighting available Customized control panels **SEAL TYPES HEATERS/COOLERS** Rotating Mechanical • Single, dual or triple zone Packing Gland configurations Custom • -5°F to 600°F temp control Designed for your needs **JACKET TYPES CUSTOMIZATION** Cooling jackets Inlet/outlet custom designs Heating jackets • Built-to-order support Integral or bolt-on stands • ASME "U" and "R" stamp • NDE and X-ray options Various insulation option

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